

What is claimed is:

1. An exposure recording apparatus for applying light beams emitted from a plurality of respective light sources arrayed in an auxiliary scanning direction to a photosensitive medium in a main scanning direction substantially perpendicular to the auxiliary scanning direction for thereby recording a two-dimensional image on the photosensitive medium, comprising:

amount-of-light detecting means movable into and out of a beam path of the light beams, for detecting amounts of light of the light beams emitted from said light sources;

a moving mechanism for moving said amount-of-light detecting means movable into and out of said beam path; and

amount-of-light adjusting means for adjusting the amounts of light of the light beams emitted from said light sources in order to equalize the amounts of light of the light beams detected by said amount-of-light detecting means.

2. An exposure recording apparatus according to claim 1, comprising a plurality of said amount-of-light detecting means.

3. An exposure recording apparatus according to claim 2, wherein the number of said amount-of-light detecting means is smaller than the number of said light sources, and

said moving mechanism comprises means for moving said amount-of-light detecting means repeatedly into and out of said beam path of predetermined ones of the light beams.

5 4. An exposure recording apparatus according to claim 2, wherein said amount-of-light adjusting means has current-to-amount-of-light conversion tables associated with the respective amount-of-light detecting means, for converting currents detected by said amount-of-light detecting means into amounts of light of said light beams, and means for rewriting said current-to-amount-of-light conversion tables in order to equalize the amounts of light which are converted from the currents detected by said amount-of-light detecting means by said current-to-amount-of-light conversion tables.

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20 5. An exposure recording apparatus according to claim 1, wherein said moving mechanism comprises:

 first moving means for moving said amount-of-light detecting means movable into and out of said beam path; and

 second moving means for moving said amount-of-light detecting means in said auxiliary scanning direction.

25 6. An exposure recording apparatus according to claim 1, wherein said amount-of-light detecting means comprises:

 a photosensor movable into said beam path obliquely with a sensitive surface thereof lying not perpendicularly

to said light beams.

7. An exposure recording apparatus according to claim 1, wherein said amount-of-light detecting means comprises:

5 a reflecting mirror movable into said beam path obliquely with a sensitive surface thereof lying not perpendicularly to said light beams; and

a photosensor for detecting the amounts of light of said light beams reflected by said reflecting mirror.

10 8. An exposure recording apparatus according to claim 1, wherein said amount-of-light detecting means comprises:

light reducing means disposed on a sensitive surface thereof for reducing the amount of light falling thereon.

15 9. An exposure recording apparatus according to claim 1, further comprising:

temperature detecting means for detecting a temperature of each of said light sources; and

20 amount-of-light correcting means for correcting the amounts of light of said light beams detected by said amount-of-light detecting means into an amount of light at the detected temperature.

25 10. An exposure recording apparatus according to claim 9, wherein said amount-of-light correcting means comprises: a temperature-vs.-amount-of-light table representing

the relation between said temperature and each of said amounts of light.

11. An exposure recording apparatus according to claim 1, further comprising:

temperature detecting means for detecting a temperature of each of said light sources; and

temperature regulating means for regulating each of said light sources at a predetermined temperature based on the detected temperature.

12. A method of adjusting amounts of light in an exposure recording apparatus for applying light beams emitted from a plurality of respective light sources arrayed in an auxiliary scanning direction to a photosensitive medium in a main scanning direction substantially perpendicular to the auxiliary scanning direction for thereby recording a two-dimensional image on the photosensitive medium, comprising the steps of:

inserting amount-of-light detecting means for detecting amounts of light of the light beams emitted from said light sources between said light sources and said photosensitive medium;

detecting the amounts of light of the light beams emitted from said light sources with said amount-of-light detecting means; and

adjusting said light sources in order to equalize the

amounts of light of the light beams detected by said amount-of-light detecting means.

5 13. A method according to claim 12, further comprising the step of:

before the step of detecting the amounts of light, controlling a temperature of each of said light sources.

10 14. A method according to claim 12, wherein said step of detecting the amounts of light comprises the step of:

controlling only those light sources which correspond to regions where said amount-of-light detecting means are inserted, to emit the light beams.

15 15. A method according to claim 12, wherein said plurality of amount-of-light detecting means movable with respect to said light sources, further comprising the steps of:

20 prior to said step of detecting the amounts of light, detecting the amount of light of the light beam emitted from one of said light sources with said plurality of amount-of-light detecting means, and adjusting said amount-of-light detecting means in order to equalize the detected amounts of light.

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